In the Claims:

Amend the current Claim set so that it conforms to the following:

1. (Currently Amended) A process for preparing a peracid ~~or diacylperoxide~~, characterized in that a mixed anhydride of formula $R^1[C(O)OC(O)OR^2]_n$ or $[R^3C(O)OC(O)O]_pR^4$ is contacted with a hydroperoxide of formula $R^5[OOH]_m$ in the presence of a base, wherein

R^1 represents a mono-, di-, tri- or tetrasubstituted C_1-C_{19} hydrocarbon group, optionally containing one or more hetero atoms,

n is 1-4,

R^2 represents a C_1-C_{20} hydrocarbon group, optionally containing one or more hetero atoms,

R^3 represents a C_1-C_{19} hydrocarbon group, optionally containing one or more hetero atoms,

R^4 represents a di-, tri- or tetrasubstituted C_1-C_{20} hydrocarbon group, optionally containing one or more hetero atoms,

p is 2-4,

R^5 represents hydrogen or a mono- or disubstituted ~~C_3-C_{18} tertiary alkyl or~~ C_2-C_{20} acyl group, in which the ~~tertiary alkyl or~~ acyl group may optionally contain one or more hetero atoms,

m is 1 or 2, and

if R^5 represents hydrogen, m is 1~~,~~

~~provided that if the hydroperoxide is an α,α'-dihydroperoxyperoxide, the reaction is not carried out in an inert two-phase solvent system comprising a polar solvent and an apolar solvent~~.

2. (Original) A process according to claim 1, characterized in that n is 1 or 2.

3. (Original) A process according to claim 1, characterized in that R^1 and R^3 independently represents a linear or branched C_4-C_{12} alkyl or C_6-C_{12} aryl group, said alkyl and aryl groups optionally being substituted with a hydroxy group, a linear or branched C_1-C_4 alkyl group or a halogen atom.

4. (Original) A process according to claim 1, characterized in that R^2 represents a C_3-C_8 alkyl group or a C_6-C_{12} aryl group.

5. (Original) A process according to claim 1, characterized in that a mixed anhydride of formula $R^1[C(O)OC(O)OR^2]_n$ is used.

6. (Currently Amended) A process according to claim 1, characterized in that R^5 represents hydrogen ~~or a monovalent C_3-C_{18} tertiary alkyl group~~.

7. (Original) A process according to claim 1, characterized in that the base is an alkali metal hydroxide.

8. (Original) A process according to claim 1, characterized in that the reaction is carried out at a pH of ~~5~~ 4 or higher.

9. (Original) A process according to claim 1, characterized in that the reaction is carried out in the absence of an organic solvent.

10. (Original) A process according to claim 1, characterized in that the mixed anhydride is prepared by contacting a carboxylic acid of formula $R^1[C(O)OH]_n$ with a halogen formate of formula $XC(O)OR^2$ or $[XC(O)O]_pR^4$ in the presence of a base in an aqueous medium, wherein R^1, R^2, R^4, n, and p have the same meaning as defined in claim 1 and X is a halogen atom.

11. (Original) A process according to claim 10, characterized in that a quaternary ammonium phase transfer or tertiary amine catalyst is present.

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Currently Amended) A hydroxyperacid obtainable by the process according to claim ~~12~~ 1 wherein R^1 or R^3 represents a C_1-C_{19} hydrocarbon group, optionally containing one or more hetero atoms, substituted with a hydroxy group, n, R^2, R^4, and p have the meaning defined above, R^5 represents hydrogen, and m is 1.

16. (Currently Amended) ~~Use of a hydroxyperoxide according to Claim 13 in bleaching~~ Bleaching, oxidation, epoxidation, chain transfer, radical (co)polymerization, ~~et~~ or (co)polymer modification reactions that use the hydroxyperacid of claim 15.